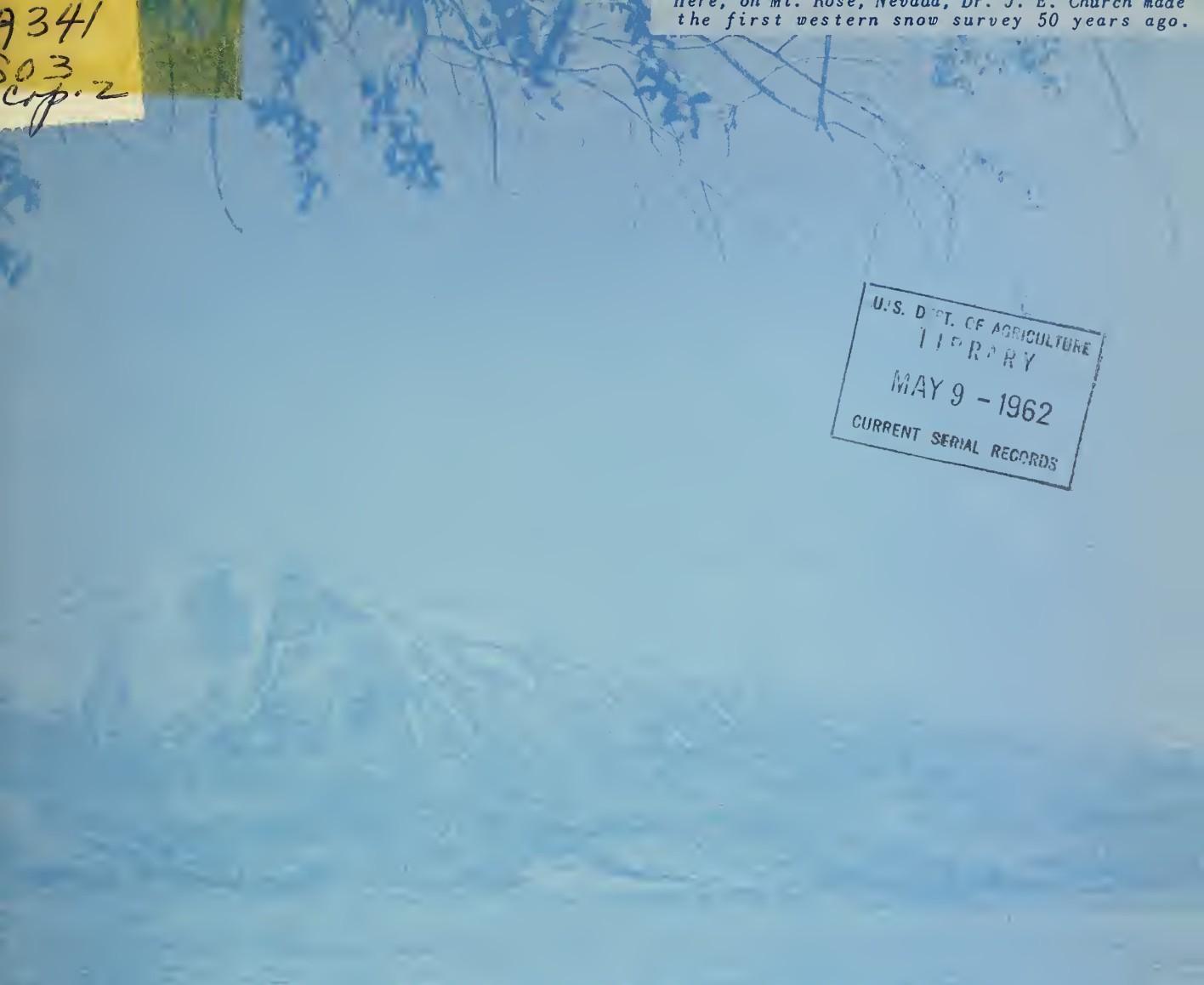


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FEDERAL - STATE - PRIVATE COOPERATIVE  
SNOW SURVEY and WATER SUPPLY FORECASTS  
for  
WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,  
and  
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above  
in cooperation with the U.S. Forest Service, Bureau of Reclamation,  
National Park Service, Geological Survey, Indian Service, Wheatland  
Irrigation District, and other Federal, State and private organizations.

AS OF  
MAR. 1, 1959

# UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

## TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

## PUBLISHED BY SOIL CONSERVATION SERVICE

| REPORTS                               | ISSUED                                | COOPERATING WITH   | LOCATION                       |
|---------------------------------------|---------------------------------------|--|--------------------------------|
| <b>RIVER BASINS</b>                   |                                       |  |                                |
| COLORADO, RIO GRANDE .....            | MONTHLY (FEB.-MAY).....               | COLO. EXP. STATION.....<br>COLO. STATE ENGINEER<br>NEW MEXICO STATE ENGINEER | FT. COLLINS, COLO.             |
| AND ARKANSAS                          |                                       |  |                                |
| COLUMBIA <i>Includes Alaska</i> ..... | MONTHLY (JAN.-MAY).....               | IDAHO STATE ENGINEER .....   | BOISE, IDAHO                   |
| UPPER MISSOURI .....                  | MONTHLY (FEB.-MAY).....               | MONT. AGR. EXP. STATION.....   | BOZEMAN, MONTANA               |
| WEST-WIDE.....                        | (OCT. 1, APR. 1 .....                 | COOPERATORS .....  | PORTLAND, OREGON<br>AND MAY 1) |
| <b>STATES</b>                         |                                       |  |                                |
| ARIZONA.....                          | SEMI-MONTHLY.....<br>(JAN. 15-APR. 1) | SALT R. VALLEY WATER.....<br>USERS ASSOCIATION                               | PHOENIX, ARIZONA               |
| NEVADA.....                           | MONTHLY (FEB.-APR.).....              | NEVAOA STATE ENGINEER.....   | RENO, NEVADA                   |
| OREGON.....                           | MONTHLY (JAN.-MAY).....               | ORE. AGR. EXP. STATION.....  | PORTLAND, OREGON               |
| UTAH.....                             | MONTHLY (JAN.-MAY).....               | UTAH STATE ENGINEER<br>UTAH AGR. EXP. STATION.....                           | SALT LAKE CITY, UTAH           |
| WASHINGTON.....                       | MONTHLY (FEB.-MAY).....               | WASH. STATE DEPT.<br>OF CONSERVATION .....                                   | SPOKANE, WASHINGTON            |
| WYOMING.....                          | MONTHLY (FEB.-JUNE).....              | WYOMING STATE ENGINEER.....  | CASPER, WYOMING                |

Copies of the various reports may be secured from: Head, Water Supply Forecasting Section  
Soil Conservation Service  
209 S.W. 5th Avenue, Portland 4, Oregon

## PUBLISHED BY OTHER AGENCIES

### OTHER SNOW SURVEY REPORTS

|                        |                          |  |
|------------------------|--------------------------|--|
| BRITISH COLUMBIA ..... | MONTHLY (FEB.-JUNE)..... | COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANDS<br>AND FORESTS, PARLIAMENT BLDGS. VICTORIA, B.C. |
| CALIFORNIA.....        | MONTHLY (FEB.-MAY).....  | CALIFORNIA DEPARTMENT OF WATER RESOURCES,<br>SACRAMENTO, CALIFORNIA                            |

FEDERAL-STATE COOPERATIVE  
SNOW SURVEYS AND WATER FORECASTS  
  
FOR  
WYOMING

Issued

March 1, 1959

Report Prepared  
by  
George W. Peak  
Snow Survey Supervisor  
State of Wyoming

Soil Conservation Service  
345 East 2nd Street  
P. O. Box 699  
Casper, Wyoming

Issued by

B. H. Hopkins  
State Conservationist  
Soil Conservation Service

Earl Lloyd  
State Engineer of Wyoming  
Cheyenne, Wyoming



PRELIMINARY WATER SUPPLY OUTLOOK  
FOR  
WYOMING  
March 1, 1959

## SNAKE RIVER BASIN

The Snake River Basin on the Columbia is expected to discharge an average flow at Moran and into Palisades. Snow cover is slightly below normal for this time of year, however, soil moisture is above normal.

The Salt River will yield a little above the normal amount and the Greys River a little below average.

## GREEN RIVER BASIN

Flow in the Green River will decrease from 101 per cent at Warren Bridge to about 86 per cent of normal at Linwood, Utah.

## WIND RIVER BASIN

The Wind River snow surveys indicate a seasonal flow of 95 per cent at Dubois. For the third consecutive year, the Popo Agie Watershed above Lander is considerably below average. The forecast of flow in this area is 86 per cent of normal, providing subsequent storms through March and April prove to be close to average.

## SHOSHONE RIVER BASIN

The April 1 to September flow into Buffalo Bill Reservoir is expected to be about 95 per cent. Snow cover is a little above normal, or 100 per cent, but soil moisture is low.



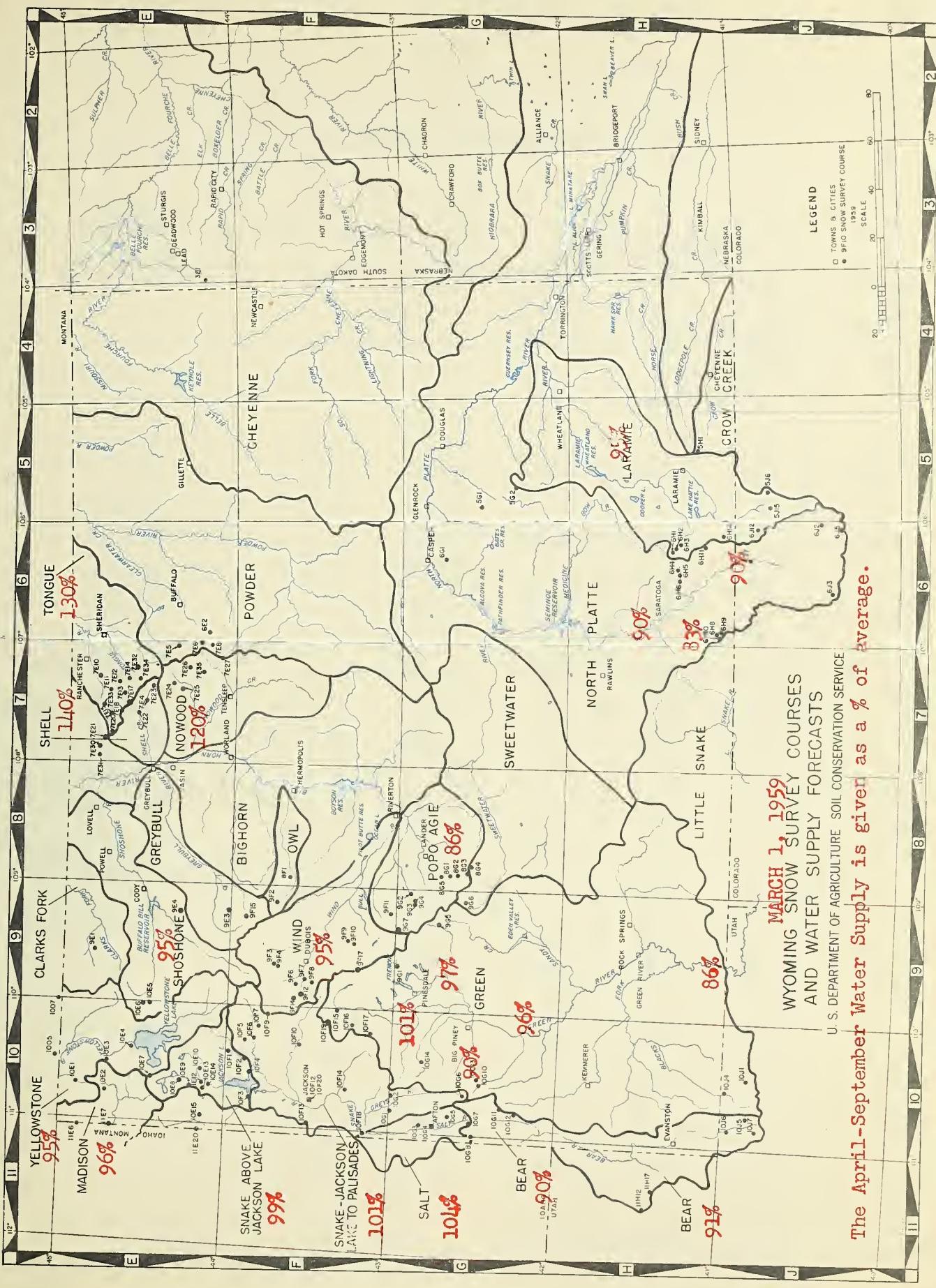
#### NORTH PLATTE BASIN

The North Platte snow pack is slightly above normal, but exceptionally low soil moisture will materially lower the snow pack to a yield of about 90 per cent at Saratoga. The Encampment Watershed indicates a potential runoff of about 83 per cent as of this date.

#### BIG HORN MOUNTAINS

The Big Horn Mountain snow surveys have found a snow pack considerably deeper than anything on record. The north slope contains a reservoir of snow water that will produce heavy flows if subsequent storms along the divide prove to be normal or close to normal. The watershed to the south in the Buffalo-Tensleep area is also above normal, but flows should be contained in the creek channels providing the rate of snow melt is normal.





# INDEX TO WYOMING SNOW COURSES

| LOCATION                       |                |       |        |      |         |       |           |           |       |       |    |                                |   |       |       |        |         |         |       |           |       |       |    |  |
|--------------------------------|----------------|-------|--------|------|---------|-------|-----------|-----------|-------|-------|----|--------------------------------|---|-------|-------|--------|---------|---------|-------|-----------|-------|-------|----|--|
| DRAINAGE BASIN AND COURSE NAME | WYOMING NUMBER | ELEV. | SEC.   | LAT. | TWP.    | RANGE | BEGAN     | RECORD    | MEAS. | MEAS. | BY | DRAINAGE BASIN AND COURSE NAME | WYOMING NUMBER                                | ELEV. | SEC.  | LAT.   | TWP.    | RANGE   | BEGAN | RECORD    | MEAS. | MEAS. | BY |  |
| <b>MISSOURI RIVER DRAINAGE</b> |                |       |        |      |         |       |           |           |       |       |    |                                |   |       |       |        |         |         |       |           |       |       |    |  |
| <b>MADISON RIVER</b>           |                |       |        |      |         |       |           |           |       |       |    |                                |   |       |       |        |         |         |       |           |       |       |    |  |
| Norris Basin                   | 10E2           | 7500  | 44°44' | I    | 110°42' | 1936  | 3,4       |           | 2     |       |    |                                | Pole Mountain #2                              | 5H1   | 8700  | 35     | 15N     | 72W     | 1936  | 2,3,4,5   | 1,4   |       |    |  |
| 21 Mile +m                     | 11E6           | 7150  | I      | 11S  | 5E      | 1934  | 1,2,3,4,5 | 6         |       |       |    |                                | <b>CROW CREEK</b>                             |       |       |        |         |         |       |           |       |       |    |  |
| West Yellowstone +m            | 11E7           | 6700  | 34     |      | 135     | 5E    | 1934      | 1,2,3,4,5 | 6     |       |    |                                | Albany  | 6H11  | 9400  | 18     | 14N     | 78W     | 1949  | 2,3,4,5   | 1     |       |    |  |
| <b>YELLOWSTONE</b>             |                |       |        |      |         |       |           |           |       |       |    |                                | Bottle Creek                                  | 6H8   | 8200  | 24     | 14N     | 85W     | 1935  | 2,3,4,5   | 1,4   |       |    |  |
| Canyon                         | 10E3           | 7750  | 44°44' |      | 110°30' | 1938  | 1,2,3,4,5 | 1         |       |       |    |                                | Boxelder                                      | 5G1   | 9000  | 31     | 30N     | 75W     | 1950  | 2,3,4,5   | 1     |       |    |  |
| Cooke City +m                  | 10D7           | 7400  | 25     | 9S   | 14E     | 1937  | 1,2,3,4,5 | 2         |       |       |    |                                | Casper Mountain                               | 6G1   | 8700  | 16     | 32N     | 79W     | 1954  | 1,2,3,4,5 | 1     |       |    |  |
| Crevice Mountain +m            | 10D5           | 8400  | 22     | 9S   | 9E      | 1935  | 3,4       |           | 4     |       |    |                                | Columbine +c                                  | 6J3   | 9300  | 21     | 5N      | 82W     | 1936  | 2,3,4,5   | 1     |       |    |  |
| East Entrance                  | 10E5           | 7000  | 17     | 52N  | 109W    | 1948  | 1,2,3,4,5 | 2         |       |       |    |                                | Fox Park                                      | 6H12  | 9200  | 21     | 13N     | 78W     | 1936  | 2,3,4,5   | 4     |       |    |  |
| Lake Camp                      | 10E4           | 7850  | 44°34' |      | 110°24' | 1937  | 1,2,3,4,5 | 1         |       |       |    |                                | Labonte                                       | 5G2   | 8450  | 11     | 27N     | 74W     | 1949  | 2,3,4,5   | 1     |       |    |  |
| Lupine Creek                   | 10E1           | 7300  | 44°54' |      | 110°37' | 1938  | 1,2,3,4,5 | 2         |       |       |    |                                | North Barrett Creek #2                        | 6H5   | 9400  | 30     | 16N     | 80W     | 1938  | 2,3,4,5   | 1,4   |       |    |  |
| Thumt Divide                   | 10E7           | 7900  | 44°22' |      | 110°35' | 1946  | 2,3,4     |           | 5     |       |    |                                | North French Creek #1                         | 6H4   | 10200 | 27     | 16N     | 80W     | 1938  | 2,3,4,5   | 1,4   |       |    |  |
| Sylvan Pass                    | 10E5           | 7100  | 12     | 52N  | 109W    | 1936  | 1,2,3,4,5 | 2         |       |       |    |                                | Northgate +c                                  | 6J7   | 8500  | 7      | 11N     | 79W     | 1950  | 2,3,4,5   | 1     |       |    |  |
| <b>CLARK'S FORK</b>            |                |       |        |      |         |       |           |           |       |       |    |                                | Old Battle                                    | 6H10  | 9800  | 29     | 14N     | 85W     | 1935  | 2,3,4,5   | 1,4   |       |    |  |
| Lodgepole                      | 9E1            | 8200  | 32     | 56N  | 106W    | 1940  | 2,3,4,5   | 1,4       |       |       |    |                                | Park View +c                                  | 6J2   | 9200  | 24     | 5N      | 78W     | 1936  | 2,3,4,5   | 1     |       |    |  |
| <b>WIND RIVER</b>              |                |       |        |      |         |       |           |           |       |       |    |                                | Ryan Park #2                                  | 6H6   | 8400  | 34     | 16N     | 81W     | 1935  | 2,3,4,5   | 1,4   |       |    |  |
| Big Warm                       | 9F12           | 8800  | 36     | 42N  | 109W    | 1955  | 2,3,4,5   | 1         |       |       |    |                                | Webber Spring                                 | 6H9   | 9000  | 27     | 14N     | 85W     | 1935  | 2,3,4,5   | 1,4   |       |    |  |
| Burroughs Creek                | 9F4            | 8800  | 15     | 43N  | 107W    | 1948  | 2,3,4,5   | 1         |       |       |    |                                | Willow Creek Pass +c                          | 6J5   | 9500  | 1      | 4N      | 78W     | 1938  | 2,3,4,5   | 1     |       |    |  |
| Dinwoodie                      | 9F10           | 10000 | 9      | 38N  | 105W    | 1948  | 2,3,4,5   | 1,3       |       |       |    |                                | <b>CHEYENNE RIVER</b>                         |       |       |        |         |         |       |           |       |       |    |  |
| Dry Creek                      | 9F9            | 9500  | 34     | 4N   | 105W    | 1948  | 2,3,4,5   | 1,3       |       |       |    |                                | Upper Spearfish +s                            | 3E1   | 6500  | 21     | 3N      | 1E      | 1944  | 2,3,4     | 4     |       |    |  |
| OuNoir                         | 9F6            | 8750  | 27     | 42N  | 109W    | 1940  | 2,3,4,5   | 1         |       |       |    |                                | <b>GREEN RIVER &amp; POPO AGIE RIVER</b>      |       |       |        |         |         |       |           |       |       |    |  |
| Geyser Creek                   | 9F7            | 8500  | 12     | 41N  | 108W    | 1948  | 2,3,4,5   | 1         |       |       |    |                                | Twenty Lakes                                  | 9G7   | 10500 | 2      | 1S      | 5W      | 1959  | 2,3,4     | 1     |       |    |  |
| Little Warm                    | 9F8            | 9500  | 24     | 41N  | 105W    | 1948  | 2,3,4,5   | 1         |       |       |    |                                | <b>GREEN RIVER &amp; WIND RIVER</b>           |       |       |        |         |         |       |           |       |       |    |  |
| Sheridan R.S. #2               | 9F14           | 7500  | 3      | 42N  | 109W    | 1955  | 2,3,4,5   | 1         |       |       |    |                                | Dinwoodie Glaciers                            | 9F17  | 10500 | 43°14' | 109°35' | 1959    | 2,3,4 | 1         |       |       |    |  |
| T-Cross Ranch                  | 9F3            | 8000  | 1      | 43N  | 107W    | 1940  | 2,3,4,5   | 1         |       |       |    |                                | <b>COLORADO RIVER DRAINAGE</b>                |       |       |        |         |         |       |           |       |       |    |  |
| Togwotee Pass                  | 10F9           | 9600  | 29     | 44N  | 110W    | 1936  | 2,3,4     | 5         |       |       |    |                                |   |       |       |        |         |         |       |           |       |       |    |  |
| <b>POPO AGIE RIVER</b>         |                |       |        |      |         |       |           |           |       |       |    |                                | <b>GREEN RIVER</b>                            |       |       |        |         |         |       |           |       |       |    |  |
| Blue Ridge                     | 8G2            | 9500  | 23     | 31N  | 101W    | 1939  | 2,3,4,5   | 1         |       |       |    |                                | Big Park                                      | 10G11 | 8700  | 7      | 27N     | 117W    | 1951  | 2,3,4,5   | 1     |       |    |  |
| Brace's Camp                   | 6G5            | 6500  | 24     | 32N  | 101W    | 1955  | 2,3,4     | 1         |       |       |    |                                | Blind Bull                                    | 10G2  | 8750  | 6      | 34N     | 115W    | 1948  | 2,3,4,5   | 1     |       |    |  |
| Hobbs Park                     | 9G3            | 10000 | 22     | 2S   | 3W      | 1948  | 2,3,4,5   | 1,3       |       |       |    |                                | Dutch Joe R.S.                                | 9G5   | 8700  | 32     | 31N     | 104W    | 1936  | 2,3,4,5   | 1     |       |    |  |
| Mosquito Park R.S.             | 9G4            | 9500  | 23     | 2S   | 3W      | 1940  | 2,3,4,5   | 1,3       |       |       |    |                                | East Rim Ovide                                | 10F17 | 7950  | 32     | 37N     | 111W    | 1936  | 1,2,3,4,5 | 1     |       |    |  |
| Sawmill Glade                  | 8G1            | 8500  | 3      | 31N  | 101W    | 1939  | 2,3,4,5   | 1         |       |       |    |                                | Gros Ventre                                   | 10F19 | 8750  | 36     | 40N     | 111W    | 1948  | 2,3,4,5   | 1     |       |    |  |
| South Pass                     | 8G3            | 9000  | 13     | 30N  | 101W    | 1939  | 2,3,4,5   | 1         |       |       |    |                                | Hewinta R.S. +u                               | 10J4  | 9500  | 33     | 31      | 13E     | 1930  | 4         |       |       |    |  |
| St. Lawrence R.S.              | 9F11           | 9000  | 26     | 1N   | 4W      | 1940  | 2,3,4,5   | 1,3       |       |       |    |                                | Hole-in-the-Rock +u                           | 10J1  | 9150  | 13     | 2N      | 15E     | 1931  | 4         |       |       |    |  |
| TROUT Creek                    | 9G2            | 8400  | 5      | 2S   | 2W      | 1948  | 2,3,4,5   | 1,3       |       |       |    |                                | Kelly R.S.                                    | 10G12 | 8200  | 13     | 26N     | 118W    | 1951  | 2,3,4,5   | 1     |       |    |  |
| <b>OWL CREEK</b>               |                |       |        |      |         |       |           |           |       |       |    |                                | Kendall R.S.                                  | 10F15 | 7900  | 23     | 38N     | 110W    | 1936  | 2,3,4,5   | 1     |       |    |  |
| Beavers Mill                   | 9F2            | 8900  | 6      | 43N  | 102W    | 1948  | 2,3,4,5   | 1         |       |       |    |                                | Loomis Park                                   | 10F16 | 8500  | 14     | 37N     | 111W    | 1936  | 2,3,4,5   | 1     |       |    |  |
| Owl Creek                      | 8F1            | 8700  | 36     | 43N  | 101W    | 1948  | 2,3,4,5   | 1         |       |       |    |                                | Mulligan Park                                 | 9G1   | 8900  | 17     | 35N     | 108W    | 1936  | 2,3,4,5   | 1     |       |    |  |
| <b>GREYBULL RIVER</b>          |                |       |        |      |         |       |           |           |       |       |    |                                | Old Battle                                    | 6H10  | 9800  | 29     | 14N     | 85W     | 1936  | 2,3,4,5   | 1,4   |       |    |  |
| Timber Creek #2                | 9E3            | 8800  | 25     | 47N  | 103W    | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Piney-LaBarge                                 | 10G10 | 8820  | 19     | 29N     | 114W    | 1937  | 2,3,4,5   | 1     |       |    |  |
| Wood River #2                  | 9F15           | 8000  | 26     | 45N  | 103W    | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Poison Meadows                                | 10G6  | 8500  | 29     | 30N     | 116W    | 1948  | 2,3,4,5   | 1     |       |    |  |
| <b>SHOSHONE RIVER</b>          |                |       |        |      |         |       |           |           |       |       |    |                                | Snyder Basin R.S. #2                          | 10G13 | 8040  | 15     | 29N     | 114W    | 1956  | 2,3,4,5   | 1     |       |    |  |
| Carter Mountain                | 9E4            | 7800  | 15     | 50N  | 103W    | 1967  | 1,2,3,4   | 1         |       |       |    |                                | Soda Lake                                     | 10G14 | 8300  | 14     | 33N     | 115W    | 1955  | 2,3,4,5   | 1     |       |    |  |
| East Entrance                  | 10E6           | 7000  | 17     | 52N  | 109W    | 1948  | 1,2,3,4,5 | 2         |       |       |    |                                | <b>GREEN RIVER &amp; POPO AGIE RIVER</b>      |       |       |        |         |         |       |           |       |       |    |  |
| Sylvan Pass                    | 10E5           | 7100  | 12     | 52N  | 110W    | 1936  | 1,2,3,4,5 | 2         |       |       |    |                                | Twenty Lakes                                  | 9G7   | 10500 | 2      | 1S      | 5W      | 1959  | 2,3,4     | 1     |       |    |  |
| <b>NOWOOD CREEK</b>            |                |       |        |      |         |       |           |           |       |       |    |                                | <b>GREEN RIVER &amp; WIND RIVER</b>           |       |       |        |         |         |       |           |       |       |    |  |
| Cold Springs Camp              | 7E25           | 8700  | I      | 50N  | 88W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Oinwoodie Glaciers                            | 9F17  | 10500 | 43°14' | 109°35' | 1959    | 2,3,4 | 1         |       |       |    |  |
| Medicine Lodge Lakes           | 7E24           | 9500  | 7      | 51N  | 87W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | <b>COLUMBIA RIVER DRAINAGE</b>                |       |       |        |         |         |       |           |       |       |    |  |
| Munkers Pass                   | 7E8            | 9700  | 11     | 48N  | 85W     | 1950  | 2,3,4,5   | 1         |       |       |    |                                |   |       |       |        |         |         |       |           |       |       |    |  |
| Onion Gulch                    | 7E27           | 8100  | 31     | 48N  | 85W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | <b>SNAKE RIVER BASIN (Above Jackson Lake)</b> |       |       |        |         |         |       |           |       |       |    |  |
| Onion Gulch                    | 7E27           | 8100  | 31     | 48N  | 85W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Arizona                                       | 10F1  | 6850  | 3      | 46N     | 113W    | 1919  | 2,3,4     | 5     |       |    |  |
| Onion Gulch                    | 7E27           | 8100  | 31     | 48N  | 85W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Aster Creek                                   | 10E8  | 7700  | 44°17' | 1919    | 2,3,4   | 5     |           |       |       |    |  |
| Onion Gulch                    | 7E17           | 8705  | 33     | 50N  | 88W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Base Camp                                     | 10F2  | 6900  | 20     | 46N     | 113W    | 1947  | 2,3,4     | 5     |       |    |  |
| Onion Gulch                    | 7E17           | 8705  | 33     | 50N  | 88W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Coulter Creek                                 | 10E10 | 7600  | 44°09' | 1919    | 2,3,4   | 2     |           |       |       |    |  |
| Tensleep Lake                  | 7E26           | 9075  | 33     | 50N  | 88W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Glade Creek                                   | 10E13 | 7200  | 44°08' | 1919    | 2,3,4   | 5     |           |       |       |    |  |
| Tyrell R.S.                    | 7E35           | 8300  | 30     | 49N  | 86W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Grassy Lake                                   | 10E15 | 7265  | 6      | 43N     | 117W    | 1940  | 2,3,4,5   | 5     |       |    |  |
| <b>SHELL CREEK</b>             |                |       |        |      |         |       |           |           |       |       |    |                                | Huckleberry Divide                            | 10E14 | 7300  | 32     | 48N     | 115W    | 1919  | 2,3,4     | 5     |       |    |  |
| Bald Mountain                  | 7E21           | 8600  | 33     | 56N  | 91W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Lewis Lake Divide                             | 10E9  | 7900  | 44°13' | 1919    | 2,3,4,5 | 5     |           |       |       |    |  |
| Beaver-Tongue Divide           | 7E20           | 9200  | 12     | 55N  | 91W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Moran   | 10F4  | 6800  | 8,17   | 45N     | 114W    | 1919  | 2,3,4     | 5     |       |    |  |
| Big Goose #2                   | 7E32           | 7700  | 4      | 53N  | 86W     | 1955  | 2,3,4,5   | 1         |       |       |    |                                | Moran Bay                                     | 10F3  | 6800  | 14     | 45N     | 116W    | 1936  | 2,3,4,5   | 1     |       |    |  |
| Bone-Spring Divide             | 7E18           | 9200  | 32     | 55N  | 89W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Snake River Station                           | 10E12 | 6780  | 44°08' | 1919    | 2,3,4   | 5     |           |       |       |    |  |
| Burgess R.S. #2                | 7E33           | 7900  | 36     | 56N  | 89W     | 1955  | 2,3,4,5   | 1         |       |       |    |                                | Thumb Divide                                  | 10E7  | 7900  | 44°22' | 1951    | 2,3,4   | 5     |           |       |       |    |  |
| Dome Lake #2                   | 7E34           | 8800  | 11     | 53N  | 87W     | 1950  | 2,3,4,5   | 1         |       |       |    |                                | <b>JACKSON LAKE TO PALISADES</b>              |       |       |        |         |         |       |           |       |       |    |  |
| Glow Creek                     | 7E14           | 9300  | 32     | 55N  | 87W     | 1955  | 2,3,4,5   | 1         |       |       |    |                                | Afton R.S.                                    | 10G4  | 8200  | 30     | 32N     | 118W    | 1936  | 2,3,4,5   | 4     |       |    |  |
| Granite Pass                   | 7E17           | 8950  | 19     | 54N  | 88W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Blackrock                                     | 10F7  | 8500  | 4      | 44N     | 111W    | 1936  | 2,3,4     | 5     |       |    |  |
| North Tongue                   | 7E15           | 8800  | 17     | 55N  | 89W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Blind Bull                                    | 10G2  | 8750  | 6      | 34N     | 115W    | 1948  | 2,3,4,5   | 1     |       |    |  |
| Sibley Lake                    | 7E11           | 8000  | 10     | 55N  | 88W     | 1956  | 2,3,4,5   | 1         |       |       |    |                                | Bryan Flat                                    | 10F14 | 6250  | 9      | 36N     | 115W    | 1936  | 1,2,3,4,5 | 1     |       |    |  |

WYOMING STREAM-FLOW FORECASTS MARCH, 1959

| BASIN AND TRIBUTARY          | April - September 30           |                                       |                  |                |       | 15-Year<br>Average<br>1938-52 |  |
|------------------------------|--------------------------------|---------------------------------------|------------------|----------------|-------|-------------------------------|--|
|                              | Seasonal<br>FORECAST<br>RUNOFF | Stream-Flow in Thousands of Acre Feet |                  |                |       |                               |  |
|                              |                                | PERCENT<br>15-Year<br>AVERAGE         | Measured<br>1957 | Runoff<br>1956 |       |                               |  |
| MADISON RIVER                |                                |                                       |                  |                |       |                               |  |
| West Yellowstone (at)        | 187                            | 96%                                   | 220              | 255            | 198   |                               |  |
| YELLOWSTONE RIVER            |                                |                                       |                  |                |       |                               |  |
| Corwin (at)                  | 1776                           | 95%                                   | 1946             | 2427           | 1870  |                               |  |
| NORTH POPO AGIE              |                                |                                       |                  |                |       |                               |  |
| Milford (near)               | 74                             | 85%                                   | 123              | 96             | 86*   |                               |  |
| LITTLE POPO AGIE             |                                |                                       |                  |                |       |                               |  |
| Lander (near)                | 46                             | 87%                                   | 62               | 44             | 49**  |                               |  |
| WIND RIVER                   |                                |                                       |                  |                |       |                               |  |
| Dubois (at)                  | 97                             | 95%                                   | 146              | 114            | 102** |                               |  |
| SHOSHONE RIVER               |                                |                                       |                  |                |       |                               |  |
| Buffalo Bill Dam (below) (1) | 780                            | 95%                                   | 1115             | 1014           | 823   |                               |  |
| LARAMIE RIVER                |                                |                                       |                  |                |       |                               |  |
| Jelm (at) (2)                | 100                            | 95%                                   | 168              | 96             | 105*  |                               |  |
| ENCAMPMENT RIVER             |                                |                                       |                  |                |       |                               |  |
| Encampment (near)            | 133                            | 83%                                   | 214              | 140            | 160*  |                               |  |
| NORTH PLATTE RIVER           |                                |                                       |                  |                |       |                               |  |
| North Gate (at)              | 220                            | 90%                                   | 537              | 232            | 245   |                               |  |
| Saratoga (at)                | 570                            | 90%                                   | 1168             | 590            | 657   |                               |  |
| GREEN RIVER                  |                                |                                       |                  |                |       |                               |  |
| Warren Bridge (at)           | 337                            | 101%                                  | 394              | 440            | 333   |                               |  |



WYOMING STREAM-FLOW FORECASTS MARCH, 1959

| BASIN AND TRIBUTARY         | April - September 30 |  |                         |      |                               |
|-----------------------------|----------------------|--|-------------------------|------|-------------------------------|
|                             | FORECAST<br>RUNOFF   | Seasonal Stream-Flow in Thousands of Acre Feet |                         |      | 15-Year<br>Average<br>1938-52 |
|                             |                      | PERCENT<br>15-Year<br>AVERAGE                  | Measured Runoff<br>1957 | 1956 |                               |
| NORTH PINEY CREEK           |                      |  |                         |      |                               |
| Mason (near)                | 33                   | 90%  | 47                      | 53   | 37                            |
| NEW FORK CREEK              |                      |  |                         |      |                               |
| Boulder (near)              | 241                  | 97%  | 268                     | 282  | 248                           |
| GREEN RIVER                 |                      |  |                         |      |                               |
| Fontenelle (at)             | 890                  | 96%  | 1177                    | 1238 | 931                           |
| Linwood (at)                | 1125                 | 86%  | 1596                    | 1529 | 1302                          |
| SNAKE RIVER                 |                      |  |                         |      |                               |
| Moran (at) (3)              | 847                  | 99%  | 936                     | 1251 | 858                           |
| PACIFIC CREEK               |                      |  |                         |      |                               |
| Moran (near)                | 168                  | 101%   | 188                     | 243  | 166**                         |
| BUFFALO FORK                |                      |  |                         |      |                               |
| Moran (near)                | 378                  | 106%   | 402                     | 488  | 356**                         |
| GROS VENTRE                 |                      |  |                         |      |                               |
| Kelly (at)                  | 300                  | 115%   | 301                     | 403  | 261**                         |
| HOBACK                      |                      |  |                         |      |                               |
| Jackson (near)              | 385                  | 100%   | 441                     | 623  | 386**                         |
| SNAKE RIVER                 |                      |  |                         |      |                               |
| Flow into Palisades (3)     | 2950                 | 101%   | 2901                    | 3848 | 2929**                        |
| SALT RIVER                  |                      |  |                         |      |                               |
| State Line (at)             | 375                  | 104%   | 411                     | 435  | 360                           |
| BEAR RIVER                  |                      |  |                         |      |                               |
| Wyo.-Utah State Line (near) | 112                  | 91%  | 101                     | 158  | 123*                          |
| Randolph (near)             | 72                   | 62%  | 44                      | 142  | 116*                          |
| Harer (at) Idaho            | 213                  | 75%  | 189                     | 357  | 281                           |
| SMITHS FORK                 |                      |  |                         |      |                               |
| Border (near)               | 107                  | 90%  | 112                     | 148  | 119*                          |

All stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.
- (2) Observed flow corrected for Colorado diversion above station.
- (3) Observed flow corrected for Jackson Lake Storage.

\* Less than 15.

\*\* Estimated 1938-52 average.

1975-1976 学年 第一学期 期中考试

## SNOW SURVEY &amp; WATER SUPPLY FORECAST

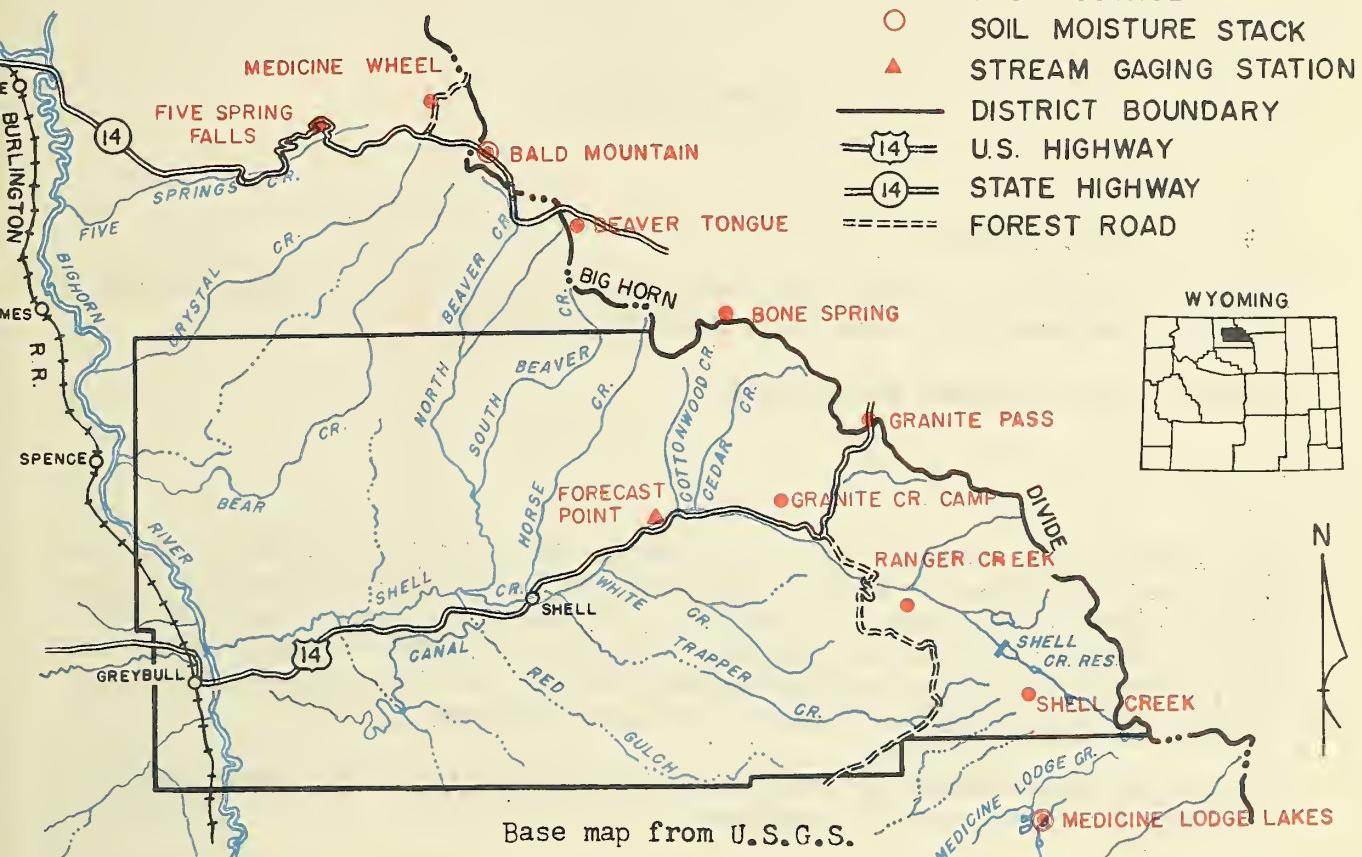
FOR

## SHELL VALLEY SOIL CONSERVATION DISTRICT

BIG HORN COUNTY, WYOMING

5 0 5 10

SCALE IN MILES



## SNOW

| SNOW COURSE |                      |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |           |        |                 |
|-------------|----------------------|-----------|---------------------|---------------------|------------------------|------------------------|-----------|--------|-----------------|
| NO.         | NAME                 | ELEVATION | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | LAST YEAR | NORMAL | YEARS OF RECORD |
| 7E31        | Five Springs Falls   | 7500      | 2/27                | 38                  | 10.8                   | 4.6                    | 4.1       | 3      |                 |
| 7E30        | Medicine Wheel       | 9000      | 2/25                | 59                  | 19.0                   | 10.5                   | 11.1      | 3      |                 |
| 7E21        | Bald Mountain        | 9600      | 2/25                | 64                  | 20.8                   | 12.6                   | 14.1      | 3      |                 |
| 7E20        | Beaver Tongue        | 9200      | 2/24                | 62                  | 19.8                   | 11.8                   | 13.4      | 3      |                 |
| 7E18        | Bone Spring          | 9200      | 2/27                | 58                  | 16.4                   | 10.2                   | 12.2      | 3      |                 |
| 7E17        | Granite Pass         | 8950      | 2/27                | 54                  | 15.3                   | 9.8                    | 12.2      | 3      |                 |
| 7E22        | Granite Creek Camp   | 7800      | 2/28                | 27                  | 6.4                    | 3.2                    | 3.8       | 3      |                 |
| 7E4         | Ranger Creek         | 8800      | 2/27                | 39                  | 9.7                    | 6.2                    | 6.8       | 4      |                 |
| 7E23        | Shell Creek          | 9600      | 2/27                | 49                  | 13.1                   | 9.8                    | 11.2      | 3      |                 |
| 7E24        | Medicine Lodge Lakes | 9500      | 3/1                 | 42                  | 10.9                   | No Report              |           |        | 2               |

## SOIL MOISTURE

| SOIL MOISTURE STACK |                      |           | DATE OF SURVEY | PERCENTAGE OF SOIL MOISTURE |           |        | YEARS OF RECORD |
|---------------------|----------------------|-----------|----------------|-----------------------------|-----------|--------|-----------------|
| NO.                 | NAME                 | ELEVATION |                | CURRENT                     | LAST YEAR | NORMAL |                 |
| 7E21M               | Bald Mountain        | 9600      | 2/25           | 24%                         | 15%       | ---    | 1               |
| 7E24M               | Medicine Lodge Lakes | 9500      | 3/1            | 24%                         | 21%       | ---    | 1               |

SNOW SURVEY & WATER SUPPLY FORECAST  
FOR  
SHELL VALLEY SOIL CONSERVATION DISTRICT  
BIG HORN COUNTY, WYOMING

March 1, 1959

TO: . . . The Cooperator, Shell Valley SCD  
FROM: Dominic J. Feeley, Work Unit Conservationist, Soil Conservation Service, P. O. Box 1111, Greybull, Wyoming  
SUBJECT: 1959 Seasonal Water Supply

The March 1, 1959 snow surveys in the north half of the Shell Creek watershed again show an abnormally heavy snow pack. North of Granite Pass, along the Big Horn divide, the pack is standing at 58% above the past three year average, 75% above last year and 33% above the March 1, 1956 survey. In the south half, from Granite Pass to Medicine Lodge Lakes, the snow pack is 30% above average, 53% above 1958 and exactly the same as March 1, 1956.

The soil moisture stacks at Bald Mountain and Medicine Lodge Lakes indicate no change from last month's readings.

If March storms along the Big Horn Divide prove to be about average the April 1 to September 30 flow in the tributaries of the southern Shell Creek watershed should be contained, however, a heavy discharge with overflowing banks may be expected in the northern tributaries.

Current conditions will be given to you each month for your analysis.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1959

| DRAINAGE BASIN<br>and<br>SNOW COURSE | NO.<br>or<br>STATE ELEV. | SNOW COVER MEASUREMENTS |                        |                           |                     |      |  |                             |         |        |
|--------------------------------------|--------------------------|-------------------------|------------------------|---------------------------|---------------------|------|--|-----------------------------|---------|--------|
|                                      |                          | 1959                    |                        |                           | PAST RECORD         |      |  |                             |         |        |
|                                      |                          | Date<br>of<br>Survey    | Snow<br>Depth<br>(In.) | Water<br>Content<br>(In.) | Water Content (In.) |      |  | Prior<br>1938-52<br>Yrs. of | Average | Record |
|                                      |                          |                         |                        |                           | 1958                | 1957 |  |                             |         |        |
|                                      |                          |                         |                        |                           |                     |      |  |                             |         |        |

MADISON RIVER - YELLOWSTONE PARK

|                               |      |      |      |    |      |      |      |      |    |
|-------------------------------|------|------|------|----|------|------|------|------|----|
| Norris Basin                  | 10E2 | 7500 | 3/1  | 33 | 9.1  | 7.9  | 9.1  | 8.6* | 16 |
| 21 Mile <sup>m</sup>          | 11E6 | 7150 | 2/27 | 51 | 14.3 | 11.5 | 17.5 | 14.5 | 25 |
| West Yellowstone <sup>m</sup> | 11E7 | 6700 | 2/26 | 33 | 8.2  | 5.6  | 11.8 | 10.4 | 25 |

UPPER YELLOWSTONE - YELLOWSTONE PARK

|                               |      |      |      |    |      |      |      |        |    |
|-------------------------------|------|------|------|----|------|------|------|--------|----|
| Canyon                        | 10E3 | 7750 | 3/1  | 49 | 12.7 | 10.3 | 14.8 | 10.7*  | 20 |
| Cook City <sup>m</sup> ∵      | 10D7 | 7400 | 3/1  | 32 | 7.5  | 4.6  | 7.7  | 7.0    | 22 |
| Crevice Mountain <sup>m</sup> | 10D5 | 8400 | 2/27 | 31 | 7.5  | 5.3  | 5.3  | 8.3*   | 20 |
| East Entrance ∵               | 10E6 | 7000 | 2/27 | 44 | 11.4 | 8.3  | 10.9 | 11.2** | 10 |
| Lake Camp #1                  | 10E4 | 7850 | 3/1  | 35 | 8.1  | 7.0  | 7.4  | 8.8*   | 19 |
| Lupine Creek                  | 10E1 | 7300 | 3/1  | 35 | 9.5  | 5.6  | 9.8  | 8.9*   | 19 |
| Sylvan Pass ∵                 | 10E5 | 7100 | 2/27 | 51 | 14.1 | 11.6 | 12.7 | 13.1*  | 15 |
| Thumb Divide *** ∵            | 10E7 | 7900 | 2/26 | 60 | 16.7 | 15.3 | 19.8 | 21.4** | 12 |

LOWER YELLOWSTONE - CLARK'S FORK

|           |     |      |     |    |     |     |     |  |   |
|-----------|-----|------|-----|----|-----|-----|-----|--|---|
| Lodgepole | 9E1 | 8200 | 3/2 | 42 | 9.9 | 6.8 | 9.2 |  | 3 |
|-----------|-----|------|-----|----|-----|-----|-----|--|---|

LOWER YELLOWSTONE - WIND RIVER

|                       |      |       |      |           |      |      |      |        |    |
|-----------------------|------|-------|------|-----------|------|------|------|--------|----|
| Big Warm              | 9F12 | 8800  | 2/18 | 35        | 8.1  | 5.7  | 6.7  |        | 4  |
| Brooks Lake ∵         | 10F8 | 9200  |      | Abandoned |      | 17.6 | 17.5 | 21.5*  | 21 |
| Burroughs Creek       | 9F4  | 8800  | 2/19 | 51        | 13.3 | 8.8  | 9.2  | 13.5** | 10 |
| Dinwoodie             | 9F10 | 10000 | 2/20 | 37        | 9.7  | 6.7  | 10.0 | 10.9** | 10 |
| Dinwoodie Glacier ∷ ∵ | 9F17 | 10500 | 2/27 | 37        | 9.7  |      |      |        |    |
| Dry Creek             | 9F9  | 9500  | 2/20 | 25        | 5.7  | 3.0  | 4.0  | 5.8**  | 10 |
| DuNoir                | 9F6  | 8750  | 2/18 | 30        | 6.7  | 3.8  | 5.2  | 7.6*   | 18 |
| Geyser Creek          | 9F7  | 8500  | 2/19 | 26        | 6.0  | 3.0  | 5.2  | 7.1**  | 10 |
| Little Warm           | 9F8  | 9500  | 2/19 | 55        | 14.1 | 9.9  | 11.7 | 14.7** | 10 |
| Sheridan R.S. #2      | 9F14 | 7500  | 2/18 | 27        | 5.8  | 6.4  | 5.6  |        | 4  |
| T-Cross Ranch         | 9F3  | 8000  | 2/19 | 29        | 6.0  | 2.5  | 5.2  | 6.3*   | 18 |
| Togwotee Pass ∵       | 10F9 | 9600  | 2/27 | 87        | 26.8 | 21.5 | 22.6 | 26.3** | 9  |

\* Averages are for the 15 year base period of 1938 to 1952.

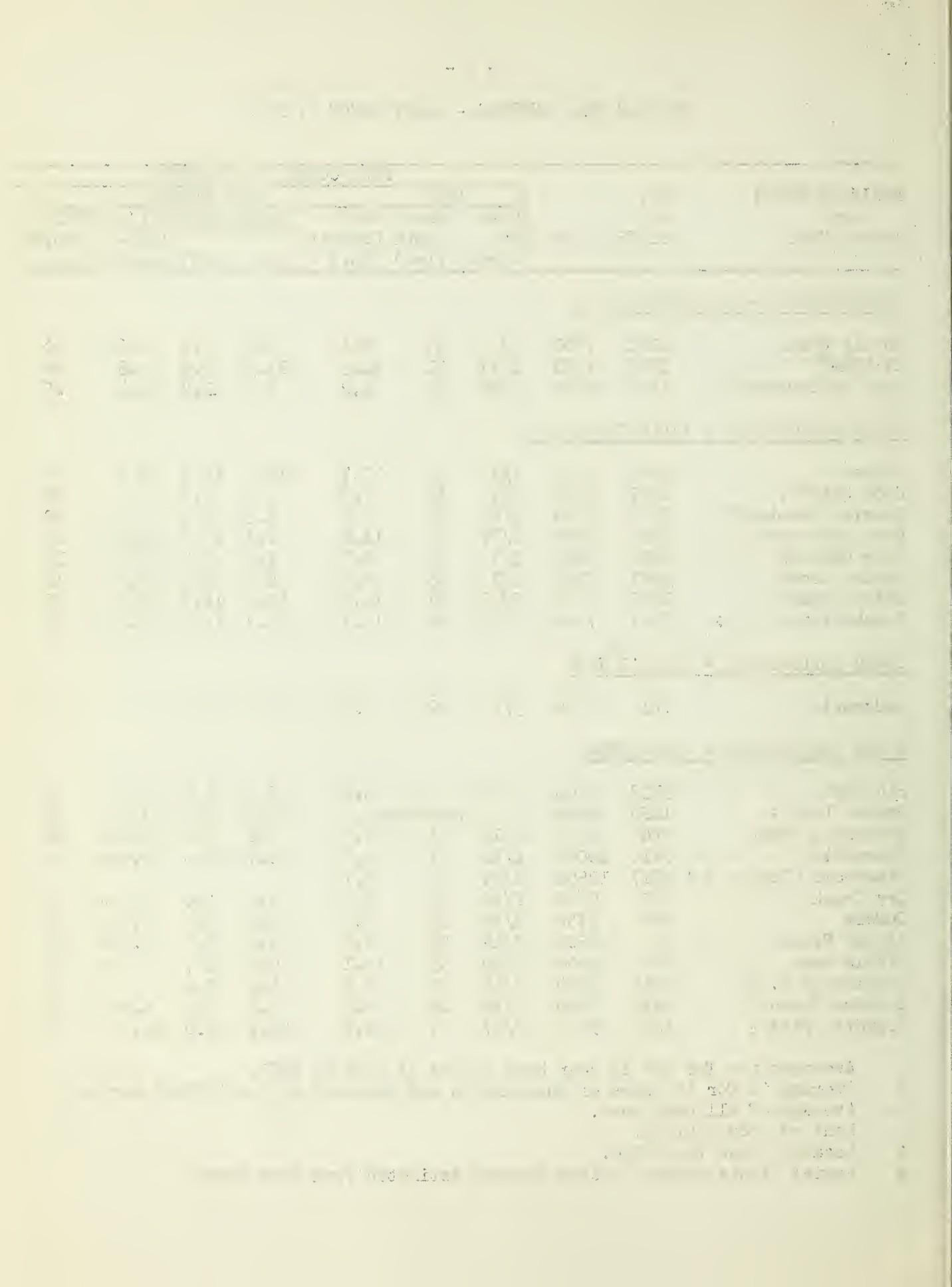
\*\* Average is for 15 years of data within and adjacent to the 1938-52 period.

∴ Average of all past data.

<sup>m</sup> Montana snow courses.

∷ Located close to divide.

∷ Aerial Stadia Marker. Water content estimated from snow depth.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1959

| DRAINAGE BASIN<br>and<br>SNOW COURSE       | NO.<br>or<br>STATE | ELEV. | SNOW COVER MEASUREMENTS |                        |                           |                     |      |         |      |         |
|--|--------------------|-------|-------------------------|------------------------|---------------------------|---------------------|------|---------|------|---------|
|  |                    |       | 1959                    |                        |                           | PAST RECORD         |      |         |      |         |
|  |                    |       | Date<br>of<br>Survey    | Snow<br>Depth<br>(In.) | Water<br>Content<br>(In.) | Water Content (In.) |      | 1938-52 | 1957 | Average |
| <u>LOWER YELLOWSTONE - POPO AGIE RIVER</u> |                    |       |                         |                        |                           |                     |      |         |      |         |
| Blue Ridge                                 | 8G2                | 9500  | 3/2                     | 26                     | 5.8                       | 5.7                 | 7.1  | 10.1*   | 18   |         |
| Bruce's Camp                               | 8G5                | 6500  | 2/27                    | 14                     | 3.2                       | Trace               |      |         | 3    |         |
| Hobbs Park                                 | 9G3                | 10000 | 3/2                     | 41                     | 11.3                      | 7.5                 | 13.1 | 16.2    | 10   |         |
| Mosquito Park R.S.                         | 9G4                | 9500  | 2/25                    | 22                     | 4.8                       | 3.4                 | 4.4  | 6.9*    | 15   |         |
| Sawmill Glade                              | 8G1                | 8500  | 3/2                     | 23                     | 5.1                       | 4.6                 | 3.9  | 6.1*    | 19   |         |
| South Pass $\div$                          | 8G3                | 9000  | 3/2                     | 32                     | 8.4                       | 7.2                 | 10.8 | 11.8*   | 19   |         |
| St. Lawrence R.S.                          | 9F11               | 9000  | 2/24                    | 21                     | 4.6                       | 2.0                 | 4.0  | 5.9*    | 15   |         |
| Trout Creek                                | 9G2                | 8400  | 3/2                     | 21                     | 4.4                       | 3.0                 | 3.5  | 5.1**   | 10   |         |
| Twenty Lakes $\mp \div$                    | 9G7                | 10500 | 2/27                    | 24                     | 5.3                       |                     |      |         |      |         |
| <u>LOWER YELLOWSTONE - OWL CREEK</u>       |                    |       |                         |                        |                           |                     |      |         |      |         |
| Beavers Mill                               | 9F2                | 8900  | 2/26                    | 26                     | 5.9                       | 3.6                 | 3.5  | 6.5**   | 9    |         |
| Owl Creek                                  | 8F1                | 8700  | 2/26                    | 20                     | 5.0                       | 3.3                 | 2.9  | 4.5**   | 10   |         |
| <u>LOWER YELLOWSTONE - GREYBULL RIVER</u>  |                    |       |                         |                        |                           |                     |      |         |      |         |
| Timber Creek #2                            | 9E3                | 8800  | 2/24                    | 11                     | 2.8                       | 2.3                 | 2.6  | 2.8**/  | 4    |         |
| Wood River #2                              | 9F1                | 8000  | 2/25                    | 19                     | 4.6                       | 3.2                 | 4.1  |         |      |         |
| <u>LOWER YELLOWSTONE - SHOSHONE RIVER</u>  |                    |       |                         |                        |                           |                     |      |         |      |         |
| Carter Mountain                            | 9E4                | 7800  | 2/24                    | 13                     | 3.4                       | 3.3                 | 3.4  |         | 2    |         |
| East Entrance $\div$                       | 10E6               | 7000  | 2/27                    | 44                     | 11.4                      | 8.3                 | 10.9 | 11.2**  | 10   |         |
| Sylvan Pass $\div$                         | 10E5               | 7100  | 2/27                    | 51                     | 14.1                      | 11.6                | 12.7 | 13.1*   | 15   |         |
| <u>LOWER YELLOWSTONE - NOWOOD CREEK</u>    |                    |       |                         |                        |                           |                     |      |         |      |         |
| Cold Springs Camp                          | 7E25               | 8700  | 3/1                     | 31                     | 8.8                       | N.R.                | 3.8  |         |      |         |
| Medicine Lodge Lakes                       | 7E24               | 9500  | 3/1                     | 42                     | 10.9                      | N.R.                | 7.1  |         |      |         |
| Munkres Pass $\div$                        | 7E8                | 9400  | 3/5                     | 35                     | 7.2                       | N.R.                | 6.5  |         |      |         |
| Onion Gulch $\div$                         | 7E27               | 8100  | 3/5                     | 37                     | 9.5                       | N.R.                | 7.0  |         |      |         |
| Tensleep Lake                              | 7E26               | 9075  | 3/4                     | 46                     | 11.2                      | N.R.                | 7.4  |         |      |         |
| Tensleep R.S.                              | 7E7                | 8300  | 3/4                     | 38                     | 8.2                       | 5.0                 | 5.1  |         |      |         |
| Tyrell R.S.                                | 7E35               | 8300  | 3/4                     | 38                     | 8.8                       | N.R.                | 5.5  |         |      |         |

Averages are for the 15 year base period of 1938 to 1952.

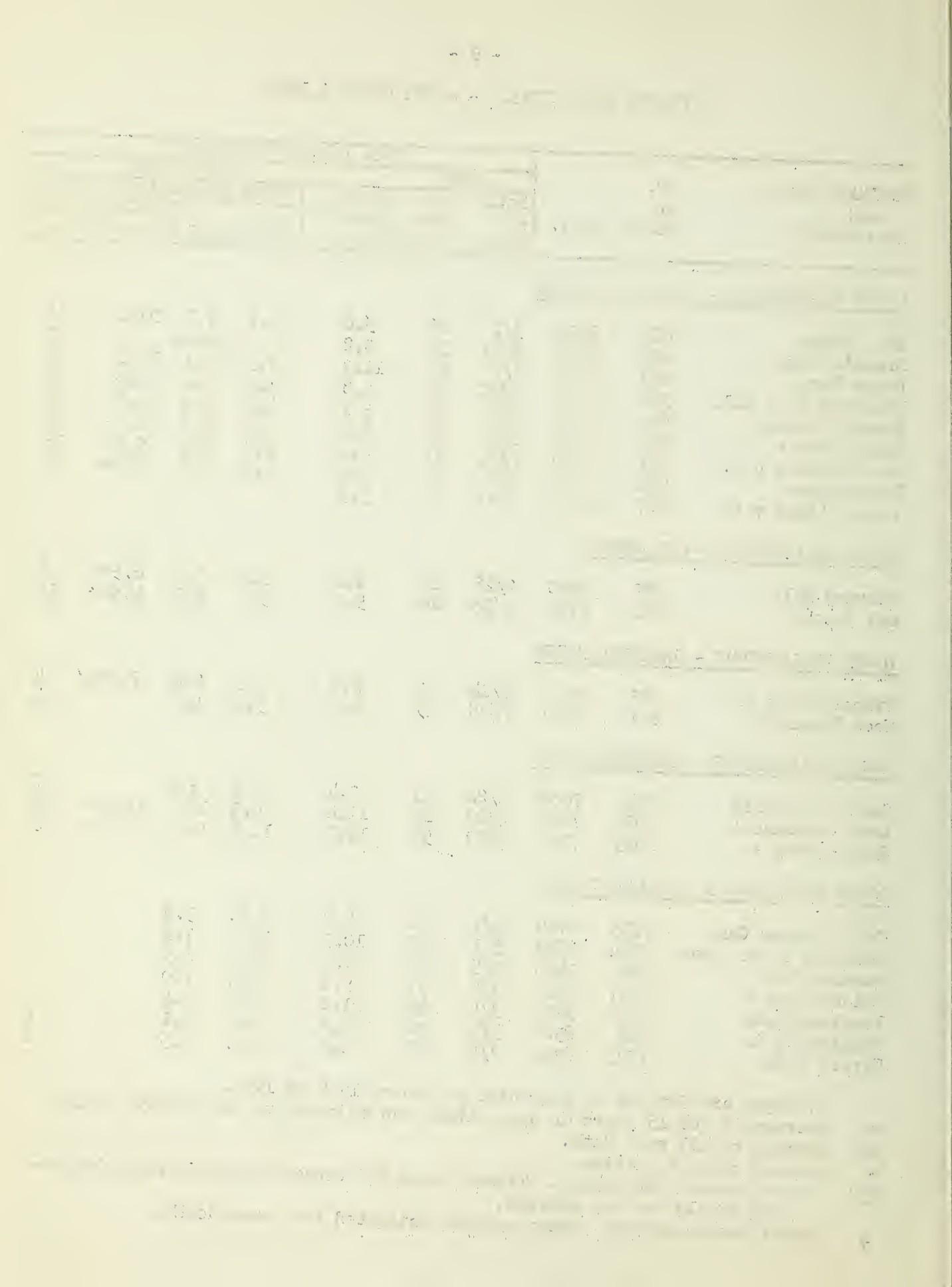
\* Average is for 15 years of data within and adjacent to the 1938-52 period.

\*\* Average of all past data.

$\div$  Located close to divide.

\*\*/ Timber Creek #1 abandoned. Timber Creek #2 average obtained from relationship of old and new courses.

$\mp$  Aerial Stadia Marker. Water content estimated from snow depth.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1959

| DRAINAGE BASIN<br>and<br>SNOW COURSE       | NO.<br>or<br>STATE ELEV. | SNOW COVER MEASUREMENTS |                        |                           |                           |      |      |         |
|--|--------------------------|-------------------------|------------------------|---------------------------|---------------------------|------|------|---------|
|  |                          | 1959                    |                        |                           | PAST RECORD               |      |      |         |
|  |                          | Date<br>of<br>Survey    | Snow<br>Depth<br>(In.) | Water<br>Content<br>(In.) | Water<br>Content<br>(In.) | 1958 | 1957 | Average |
| <u>LOWER YELLOWSTONE - SHELL CREEK</u>     |                          |                         |                        |                           |                           |      |      |         |
| Bald Mountain ÷                            | 7E21                     | 9600                    | 2/25                   | 64                        | 20.8                      | 12.6 | 13.0 | 3       |
| Beaver-Tongue ÷                            | 7E20                     | 9200                    | 2/24                   | 62                        | 19.8                      | 11.8 | 12.0 | 3       |
| Bone-Spring ÷                              | 7E18                     | 9200                    | 2/27                   | 58                        | 16.4                      | 10.2 | 11.7 | 3       |
| Granite Creek Camp                         | 7E22                     | 7800                    | 2/28                   | 27                        | 6.4                       | 3.2  | 3.0  | 3       |
| Granite Pass ÷                             | 7E17                     | 8950                    | 2/27                   | 54                        | 15.3                      | 9.8  | 12.1 | 3       |
| Ranger Creek                               | 7E4                      | 8800                    | 2/27                   | 39                        | 9.7                       | 6.2  | 6.1  | 4       |
| Shell Creek                                | 7E23                     | 9600                    | 2/27                   | 49                        | 13.1                      | 9.8  | 9.3  | 2       |
| <u>LOWER YELLOWSTONE - PORCUPINE CREEK</u> |                          |                         |                        |                           |                           |      |      |         |
| Five Springs Falls                         | 7E31                     | 7500                    | 2/27                   | 38                        | 10.8                      | 4.6  | 3.2  | 3       |
| Medicine Wheel ÷                           | 7E30                     | 9000                    | 2/25                   | 59                        | 19.0                      | 10.5 | 10.5 | 3       |
| <u>LOWER YELLOWSTONE - TONGUE RIVER</u>    |                          |                         |                        |                           |                           |      |      |         |
| Beaver-Tongue ÷                            | 7E20                     | 9200                    | 2/24                   | 62                        | 19.8                      | 11.8 | 12.0 | 3       |
| Big Goose #2                               | 7E32                     | 7700                    | 3/1                    | 30                        | 7.2                       | 4.3  | 4.5  | 3       |
| Bone-Spring ÷                              | 7E18                     | 9200                    | 2/27                   | 58                        | 16.4                      | 10.2 | 11.7 | 3       |
| Burgess R.S. #2                            | 7E33                     | 7900                    | 2/25                   | 33                        | 8.7                       | 4.4  | 4.1  | 3       |
| Dome Lake #2                               | 7E34                     | 8800                    | 3/1                    | 35                        | 8.6                       | 5.4  | 7.0  | 3       |
| Gloom Creek                                | 7E14                     | 9300                    | 2/26                   | 45                        | 13.1                      | 7.8  | 7.6  | 3       |
| Granite Pass ÷                             | 7E17                     | 8950                    | 2/27                   | 54                        | 15.3                      | 9.8  | 12.1 | 3       |
| Sibley Lake                                | 7E11                     | 8000                    | 2/28                   | 42                        | 11.7                      | 6.4  | 5.7  | 3       |
| Sucker Creek                               | 7E12                     | 9000                    | 2/26                   | 46                        | 12.8                      | 7.7  | 7.0  | 3       |
| Steamboat Point                            | 7E10                     | 7500                    | 2/28                   | 33                        | 9.0                       | 3.5  | 3.8  | 3       |
| Wood Rock G.S.                             | 7E13                     | 8500                    | 2/26                   | 41                        | 10.1                      | 6.2  | 7.2  | 3       |
| <u>LOWER YELLOWSTONE - POWDER RIVER</u>    |                          |                         |                        |                           |                           |      |      |         |
| Muddy Creek G.S. ÷                         | 7E28                     | 7800                    | 3/5                    | 18                        | 5.0                       | N.R. | 2.0  | 2       |
| Munkres Pass ÷                             | 7E8                      | 9700                    | 3/5                    | 35                        | 7.2                       | N.R. | 6.5  | 3       |
| Onion Gulch ÷                              | 7E27                     | 8100                    | 3/5                    | 37                        | 9.5                       | N.R. | 7.0  | 2       |
| Soldier Park                               | 7E5                      | 8700                    | 3/3                    | 25                        | 5.5                       | 3.7  | 1.7  | 3.8**   |
| Sour Dough                                 | 7E6                      | 8500                    | 3/4                    | 29                        | 6.3                       | 4.7  | 4.1  | 3       |
| <u>NORTH PLATTE - SWEETWATER</u>           |                          |                         |                        |                           |                           |      |      |         |
| Grannier Meadows #1 ÷ 8G4                  |                          | 9000                    | 3/2                    | 28                        | 6.6                       | 6.7  | 10.7 | 11.5    |
| Larsen Creek                               | 9G6                      | 9000                    | 3/2                    | 34                        | 8.5                       | 8.4  | N.R. | 10.8**  |
| South Pass ÷                               | 8G3                      | 9000                    | 3/2                    | 32                        | 8.4                       | 7.2  | 10.8 | 11.8*   |
|  |                          |                         |                        |                           |                           |      |      | 19      |

Averages are for the 15 year base period of 1938 to 1952.

\* Average is for 15 years of data within and adjacent to the 1938-52 period.

\*\* Average of all past data.

÷ Located close to divide.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1959

| DRAINAGE BASIN<br>and<br>SNOW COURSE | NO.<br>or<br>STATE ELEV. | SNOW COVER MEASUREMENTS |                        |                           |                     |      |                  |                         |        |
|--------------------------------------|--------------------------|-------------------------|------------------------|---------------------------|---------------------|------|------------------|-------------------------|--------|
|                                      |                          | 1959                    |                        |                           | PAST RECORD         |      |                  |                         |        |
|                                      |                          | Date<br>of<br>Survey    | Snow<br>Depth<br>(In.) | Water<br>Content<br>(In.) | Water Content (In.) |      | Prior<br>1938-52 | Yrs. of<br>1957 Average | Record |
|                                      |                          |                         |                        |                           | 1958                | 1957 |                  |                         |        |

NORTH PLATTE - LARAMIE RIVER

|                                      |      |       |      |    |      |      |      |        |    |
|--------------------------------------|------|-------|------|----|------|------|------|--------|----|
| Albany $\mp \div$                    | 6H11 | 9400  | 3/2  | 46 | 13.4 | 11.0 | 13.5 | 12.5** | 10 |
| Brooklyn Lake #1 $\div$              | 6H1  | 10200 | 2/27 | 65 | 20.3 | 20.2 | 23.4 | 17.9   | 22 |
| Brooklyn Lake #2 $\div$              | 6H13 | 10200 | 2/27 | 65 | 20.2 | 18.9 | 21.2 |        | 3  |
| Cameron Pass <sup>c</sup> $\mp \div$ | 5J1  | 10300 | 2/28 | 67 | 19.8 | 18.0 | 19.0 | 18.5   | 22 |
| Deadman Hill <sup>c</sup> $\mp \div$ | 5J6  | 10200 | 3/1  | 48 | 14.0 | 12.5 | 12.0 | 11.4   | 22 |
| Fox Park $\div$                      | 6H12 | 9200  | 2/25 | 23 | 5.6  | 7.0  | 7.4  | 5.5    | 22 |
| Hairpin Turn #2                      | 6H2  | 9500  | 2/27 | 38 | 10.8 | 9.7  | 11.5 | 9.2    | 21 |
| LaBonte $\div$                       | 5G2  | 8450  | 2/25 | 21 | 4.4  | 3.4  | 4.9  | 5.5**  | 10 |
| Libby Lodge #2                       | 6H3  | 8700  | 2/27 | 36 | 10.0 | 8.9  | 10.2 | 8.3    | 21 |
| Lost Lake <sup>c</sup> $\div$        | 5J23 | 9300  | 2/28 | 47 | 14.2 | 9.8  | 13.6 | 8.5**  | 7  |
| McIntyre <sup>c</sup>                | 5J15 | 9100  | 3/1  | 37 | 9.5  | 7.3  | 12.4 | 9.0*   | 10 |
| Pole Mountain #2 $\div$              | 5H1  | 8700  | 2/26 | 18 | 3.6  | 2.1  | 6.0  | 4.3    | 23 |
| Roach <sup>c</sup> $\mp$             | 6J8  | 8900  | 3/1  | 52 | 16.0 | 14.8 | 16.8 | 15.1*  | 18 |
| Rock Creek $\mp \div$                | 6H13 | 9500  |      |    | N.R. |      |      |        |    |

NORTH PLATTE - CROW CREEK

|                         |     |      |      |    |     |     |     |     |    |
|-------------------------|-----|------|------|----|-----|-----|-----|-----|----|
| Pole Mountain #2 $\div$ | 5H1 | 8700 | 2/26 | 18 | 3.6 | 2.1 | 6.0 | 4.3 | 23 |
|-------------------------|-----|------|------|----|-----|-----|-----|-----|----|

NORTH PLATTE - ABOVE SEMINOE RESERVOIR

|                                       |      |       |      |    |      |      |      |        |    |
|---------------------------------------|------|-------|------|----|------|------|------|--------|----|
| Albany $\mp \div$                     | 6H11 | 9400  | 3/2  | 46 | 13.4 | 11.0 | 13.5 | 12.5** | 10 |
| Bottle Creek                          | 6H8  | 8200  | 2/25 | 39 | 11.3 | 9.7  | 16.2 | 11.4   | 21 |
| Boxelder                              | 5G1  | 9000  | 3/2  | 27 | 5.2  | 4.0  | 5.2  | 4.6**  | 9  |
| Cameron Pass <sup>c</sup> $\mp \div$  | 5J1  | 10300 | 2/28 | 67 | 19.8 | 18.0 | 19.0 | 18.5   | 22 |
| Casper Mountain                       | 6G1  | 8700  | 2/27 | 33 | 8.2  | 8.4  | 8.5  |        | 3  |
| Columbine <sup>c</sup> $\mp$          | 6J3  | 9300  | 2/27 | 77 | 22.2 | 21.8 | 23.9 | 18.4   | 23 |
| Elk Mountain $\mp$                    | 6H14 | 9500  |      |    | N.R. |      |      |        |    |
| Fox Park $\div$                       | 6H12 | 9200  | 2/25 | 23 | 5.6  | 7.0  | 7.4  | 5.5    | 22 |
| LaBonte $\div$                        | 5G2  | 8450  | 2/25 | 21 | 4.4  | 3.4  | 4.9  | 5.5**  | 10 |
| North Barrett Cr. $\mp$               | 6I15 | 9400  |      |    | N.R. | 20.6 | 17.8 | 15.2   | 22 |
| North French Cr. $\mp \div$           | 6H4  | 10200 |      |    | N.R. | 31.2 | 27.9 | 23.2   | 21 |
| Northgate <sup>c</sup>                | 6J7  | 8500  | 2/24 | 23 | 5.2  | 4.3  | 7.3  | 5.5**  | 9  |
| Old Battle $\div$                     | 6H10 | 9800  | 2/25 | 69 | 20.2 | 26.6 | 33.2 | 25.5   | 22 |
| Park View <sup>c</sup>                | 6J2  | 9200  | 2/27 | 28 | 6.6  | 5.2  | 9.3  | 7.7    | 23 |
| Rock Creek $\mp \div$                 | 6H13 | 9500  |      |    | N.R. |      |      |        |    |
| Ryan Park $\mp$                       | 6H6  | 8400  |      |    | N.R. | 10.2 | 11.7 | 8.8    | 22 |
| Webber Spring                         | 6H9  | 9000  | 2/25 | 45 | 12.5 | 12.6 | 19.5 | 14.9   | 21 |
| Willow Creek Pass <sup>c</sup> $\div$ | 6J5  | 9500  | 2/27 | 40 | 10.1 | 8.8  | 13.2 | 10.4   | 21 |

Averages are for the 15 year base period of 1938 to 1952.

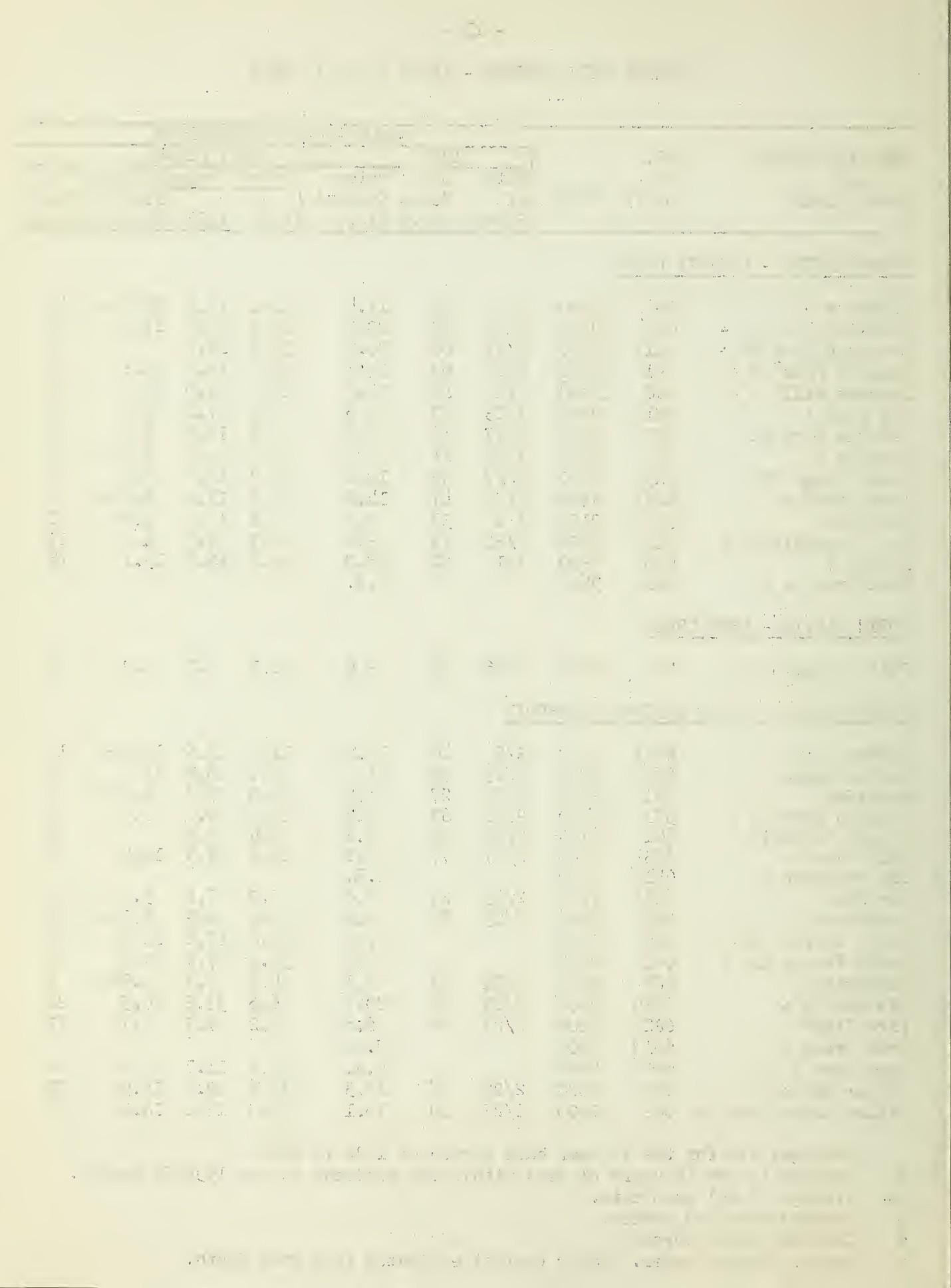
\* Average is for 15 years of data within and adjacent to the 1938-52 period.

\*\* Average of all past data.

$\div$  Located close to divide.

<sup>c</sup> Colorado snow courses

$\mp$  Aerial Stadia Marker. Water content estimated from snow depth.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1959

| DRAINAGE BASIN<br>and<br>SNOW COURSE    | NO.<br>or<br>STATE | ELEV. | SNOW COVER MEASUREMENTS |                        |                           |                     |      |         |      |         |
|---|--------------------|-------|-------------------------|------------------------|---------------------------|---------------------|------|---------|------|---------|
|   |                    |       | 1959                    |                        |                           | PAST RECORD         |      |         |      |         |
|   |                    |       | Date<br>of<br>Survey    | Snow<br>Depth<br>(In.) | Water<br>Content<br>(In.) | Water Content (In.) |      | 1938-52 | 1957 | Average |
| <u>NORTH LARAMIE MOUNTAINS</u>          |                    |       |                         |                        |                           |                     |      |         |      |         |
| Boxelder                                | 5G1                | 9000  | 3/2                     | 27                     | 5.2                       | 4.0                 | 5.2  | 4.6**   |      | 9       |
| Casper Mountain                         | 6G1                | 8700  | 2/27                    | 33                     | 8.2                       | 8.4                 | 8.5  |         |      | 3       |
| LaBonte $\div$                          | 5G2                | 8450  | 2/25                    | 21                     | 4.4                       | 3.4                 | 4.9  | 5.5**   |      | 10      |
| <u>UPPER COLORADO - GREEN RIVER</u>     |                    |       |                         |                        |                           |                     |      |         |      |         |
| Big Park $\div$ $\mp$                   | 10G11              | 8700  | 2/27                    | 54                     | 15.5                      | 17.9                | 15.6 | 18.0**  |      | 8       |
| Blind Bull $\mp$ $\div$                 | 10G2               | 8750  | 2/27                    | 75                     | 22.0                      | N.R.                | N.R. | 29.3**  |      | 7       |
| Dutch Joe R.S.                          | 9G5                | 8700  | 2/25                    | 33                     | 6.5                       | 7.6                 | 8.3  | 8.1**   |      | 7       |
| East Rim Divide $\div$                  | 10F17              | 7950  | 2/24                    | 37                     | 10.4                      | 8.9                 | 9.3  | 10.3*   |      | 19      |
| Green River Lakes                       | 9F16               | 8100  |                         |                        | Abandoned                 |                     |      |         |      |         |
| Gros Ventre Summit $\div$               | 10F19              | 8750  | 2/25                    | 43                     | 11.9                      | 7.2                 | 9.0  | 10.7**  |      | 11      |
| Kelly R. S. $\div$                      | 10G12              | 8200  |                         |                        | N.R.                      | 17.4                | 14.2 |         |      | 4       |
| Kendall R.S.                            | 10F15              | 7900  | 2/25                    | 33                     | 8.9                       | 7.5                 | 8.0  | 10.6*   |      | 18      |
| Loomis Park $\div$                      | 10F16              | 8500  | 2/26                    | 56                     | 16.0                      | 13.4                | 15.8 | 15.6*   |      | 18      |
| Mulligan Park                           | 9G1                | 8900  | 2/24                    | 36                     | 9.8                       | 8.1                 | 9.7  | 9.5*    |      | 17      |
| Old Battle $\div$                       | 6H10               | 9800  | 2/25                    | 69                     | 20.2                      | 26.6                | 33.2 | 25.5    |      | 22      |
| Piney LaBarge                           | 10G10              | 8820  | 2/27                    | 51                     | 14.6                      | 18.6                | 16.1 |         |      | 4       |
| Poison Meadows $\div$                   | 10G6               | 8500  | 2/27                    | 78                     | 22.3                      | 28.6                | 25.9 | 25.9**  |      | 11      |
| Snyder Basin R.S. #2                    | 10G13              | 8040  | 2/27                    | 46                     | 12.4                      | 16.1                | 13.4 |         |      | 3       |
| Soda Lake                               | 10G14              | 8300  | 3/1                     | 53                     | 15.5                      | 17.8                | 15.1 |         |      | 2       |
| Triple Peaks                            | 10G15              | 8600  | 3/1                     | 71                     | 23.1                      | 26.1                | 23.9 |         |      | 2       |
| <u>SNAKE RIVER - ABOVE JACKSON LAKE</u> |                    |       |                         |                        |                           |                     |      |         |      |         |
| Arizona ***                             | 10F1               | 6850  | 2/26                    | 56                     | 14.7                      | 14.8                | 18.8 | 15.8    |      | 40      |
| Astor Creek ***                         | 10E8               | 7700  | 2/25                    | 81                     | 24.1                      | 21.8                | 29.8 | 26.8    |      | 40      |
| Base Camp *** $\div$                    | 10F2               | 6900  | 2/27                    | 58                     | 15.3                      | 13.8                | 18.4 | 17.7**  |      | 12      |
| Coulter Creek ***                       | 10E10              | 7000  | 2/25                    | 65                     | 18.7                      | 18.9                | 25.4 | 19.7    |      | 40      |
| Glade Creek ***                         | 10E13              | 7200  | 2/26                    | 61                     | 17.1                      | 19.5                | 22.1 | 19.7    |      | 40      |
| Grassy Lake $\div$                      | 10E15              | 7265  | 2/28                    | 90                     | 28.7                      | 28.0                | 35.8 | 29.4*   |      | 19      |
| Huckleberry Div.***                     | 10E14              | 7300  | 2/25                    | 58                     | 15.6                      | 17.1                | 18.1 | 16.9    |      | 40      |
| Lewis Lake Div.***                      | 10E9               | 7900  | 2/25                    | 112                    | 36.4                      | 34.1                | 41.1 | 35.5    |      | 40      |
| Moran ***                               | 10F4               | 6800  | 2/27                    | 43                     | 11.3                      | 11.5                | 12.1 | 10.4    |      | 40      |
| Moran Bay ***                           | 10F3               | 6800  | 2/27                    | 66                     | 18.6                      | 21.5                | 20.1 | 18.6    |      | 40      |
| Snake River Sta.***                     | 10E12              | 6780  | 2/25                    | 61                     | 16.8                      | 18.1                | 20.7 | 17.4    |      | 40      |
| Thumb Divide *** $\div$                 | 10E7               | 7900  | 2/26                    | 60                     | 16.7                      | 15.3                | 19.8 | 21.4**  |      | 12      |

Averages are for the 15 year base period of 1938 to 1952.

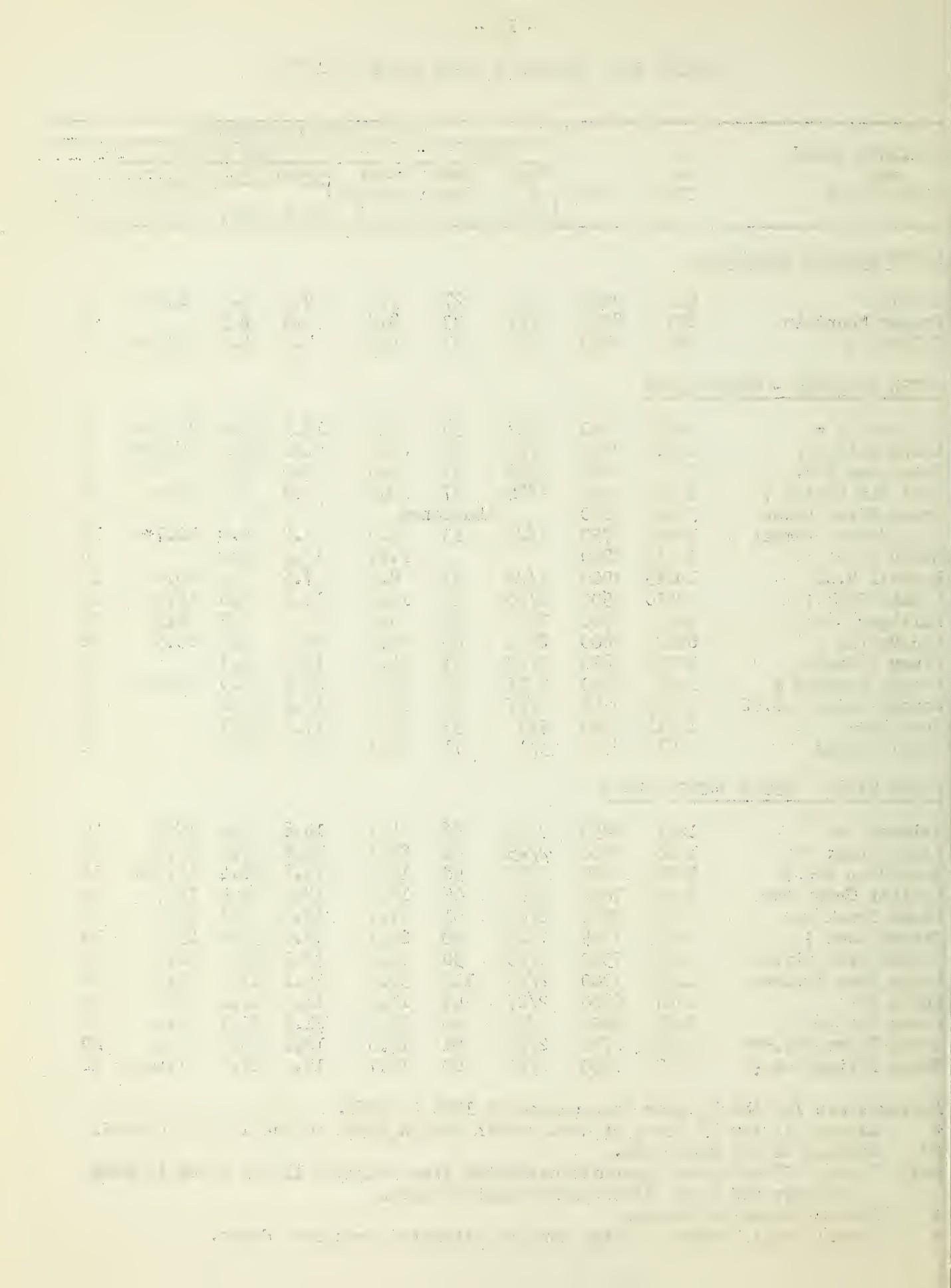
\* Average is for 15 years of data within and adjacent to the 1938-52 period.

\*\* Average of all past data.

\*\*\* March, 1930-50 water contents estimated from February 15 and March 15 snow surveys and Snake River climatological data.

$\div$  Located close to divide.

$\mp$  Aerial Stadia Marker. Water content estimated from snow depth.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1959

| DRAINAGE BASIN<br>and<br>SNOW COURSE   | NO.<br>or<br>STATE | ELEV. | SNOW COVER MEASUREMENTS |                        |                           |                           |         |                   | Prior<br>Yrs.of<br>Record |  |
|--|--------------------|-------|-------------------------|------------------------|---------------------------|---------------------------|---------|-------------------|---------------------------|--|
|  |                    |       | 1959                    |                        |                           | PAST RECORD               |         |                   |                           |  |
|  |                    |       | Date<br>of<br>Survey    | Snow<br>Depth<br>(In.) | Water<br>Content<br>(In.) | Water<br>Content<br>(In.) | 1938-52 | 1958 1957 Average |                           |  |
| <u>JACKSON LAKE TO PALISADES</u>       |                    |       |                         |                        |                           |                           |         |                   |                           |  |
| Afton R.S.                             | 10G4               | 6200  | 2/25                    | 15                     | 4.2                       | 6.0                       | 4.2     | 4.6               | 23                        |  |
| Blackrock                              | 10F7               | 8600  | 2/27                    | 72                     | 19.9                      | 16.3                      | 16.1    | 19.7**            | 9                         |  |
| Blind Bull $\frac{1}{2}$               | 10G2               | 8750  | 2/27                    | 75                     | 22.0                      | N.R.                      | N.R.    | 29.3**            | 7                         |  |
| Bryan Flat                             | 10F14              | 6250  | 3/2                     | 31                     | 8.3                       | 8.9                       | 8.3     | 8.9               | 23                        |  |
| CCC Camp $\frac{1}{2}$                 | 10G7               | 7500  | 2/25                    | 38                     | 9.3                       | 10.7                      | 11.4    | 9.7               | 23                        |  |
| Cottonwood $\frac{1}{2}$               | 10G5               | 7500  | 2/27                    | 66                     | 19.0                      |                           |         |                   | 3                         |  |
| Deadman Ranch $\frac{1}{2}$            | 10G1               | 6534  | 2/27                    | 37                     | 10.5                      | N.R.                      | N.R.    | 9.5               | 20                        |  |
| East Rim Divide $\frac{1}{2}$          | 10F17              | 7950  | 2/24                    | 37                     | 10.4                      | 8.9                       | 9.3     | 10.3*             | 19                        |  |
| Four Mile Meadows                      | 10F6               | 7770  | 2/27                    | 49                     | 12.4                      | 10.1                      | 10.4    | 11.8**            | 9                         |  |
| Greys Boundary                         | 10F18              | 5800  | 2/25                    | 37                     | 11.0                      | 13.5                      | 8.5     | 10.6              | 23                        |  |
| Gros Ventre Summit $\frac{1}{2}$       | 10F19              | 8750  | 2/25                    | 43                     | 11.9                      | 7.2                       | 9.0     | 10.7**            | 11                        |  |
| Grover Park Divide                     | 10G3               | 7500  | 2/26                    | 37                     | 9.3                       | 13.0                      | 9.9     | 9.8               | 23                        |  |
| Loomis Park $\frac{1}{2}$              | 10F16              | 8500  | 2/26                    | 56                     | 16.0                      | 13.4                      | 15.8    | 15.6*             | 18                        |  |
| Poison Meadows $\frac{1}{2}$           | 10G6               | 8500  | 2/27                    | 78                     | 22.3                      | 28.6                      | 25.9    | 25.9**            | 11                        |  |
| Salt River Summit $\frac{1}{2}$        | 10G8               | 7900  | 2/25                    | 45                     | 11.6                      | 16.1                      | 14.6    | 14.1**            | 11                        |  |
| Snow King Mtn. #1                      | 10F11              | 7600  | Destroyed               |                        |                           |                           |         |                   |                           |  |
| Snow King Mtn. #2                      | 10F12              | 7200  | 3/2                     | 32                     | 8.9                       | 9.1                       | 9.0     |                   | 5                         |  |
| Snow King Mtn. #3                      | 10F20              | 7600  | 3/2                     | 45                     | 13.7                      |                           |         |                   |                           |  |
| Teton Pass #2 $\frac{1}{2}$            | 10F13              | 8500  | 2/27                    | 96                     | 29.4                      | 30.1                      | 28.4    | 31.5**            | 14                        |  |
| Togwotee Pass $\frac{1}{2}$            | 10F9               | 9600  | 2/27                    | 87                     | 26.8                      | 21.5                      | 22.6    | 26.3**            | 9                         |  |
| Turpin Meadows                         | 10F5               | 6930  | 2/27                    | 42                     | 10.1                      | 10.1                      | 10.1    | 10.4**            | 9                         |  |
| Yellowjacket                           | 10F10              | 7675  | 3/1                     | 25                     | 6.7                       | 4.7                       | 4.5     | 5.4*              | 17                        |  |
| <u>BEAR RIVER</u>                      |                    |       |                         |                        |                           |                           |         |                   |                           |  |
| Big Park $\frac{1}{2}$                 | 10G11              | 8700  | 2/27                    | 54                     | 15.5                      | 17.9                      | 15.6    | 18.0**            | 8                         |  |
| CCC Camp $\frac{1}{2}$                 | 10G7               | 7500  | 2/25                    | 38                     | 9.3                       | 10.7                      | 11.4    | 9.7               | 23                        |  |
| Kelly R.S. $\frac{1}{2}$               | 10G12              | 8200  |                         |                        | N.R.                      | 17.4                      | 14.2    |                   | 4                         |  |
| Monte Cristo R.S. <sup>u</sup>         | 11H12              | 8960  | 2/25                    | 58                     | 17.5                      | 24.7                      | 20.9    | 24.5**            | 9                         |  |
| Poison Meadows $\frac{1}{2}$           | 10G6               | 8500  | 2/27                    | 78                     | 22.3                      | 28.6                      | 25.9    | 25.9**            | 11                        |  |
| Salt River Summit $\frac{1}{2}$        | 10G8               | 7900  | 2/25                    | 45                     | 11.6                      | 16.1                      | 14.6    | 14.1**            | 11                        |  |
| Trial River <sup>u</sup> $\frac{1}{2}$ | 10J8               | 9800  | 2/25                    | 68                     | 17.8                      | 23.7                      | 23.6    | 23.9**            | 13                        |  |
| <u>MISSOURI - CHEYENNE RIVER</u>       |                    |       |                         |                        |                           |                           |         |                   |                           |  |
| Upper Spearfish <sup>s</sup>           | 3E1                | 6500  | 2/26                    | 31                     | 7.2                       | 4.0                       | 5.4     | 5.4*              | 15                        |  |

Averages are for the 15 year base period of 1938 to 1952.

\* Average is for 15 years of data within and adjacent to the 1938-52 period.

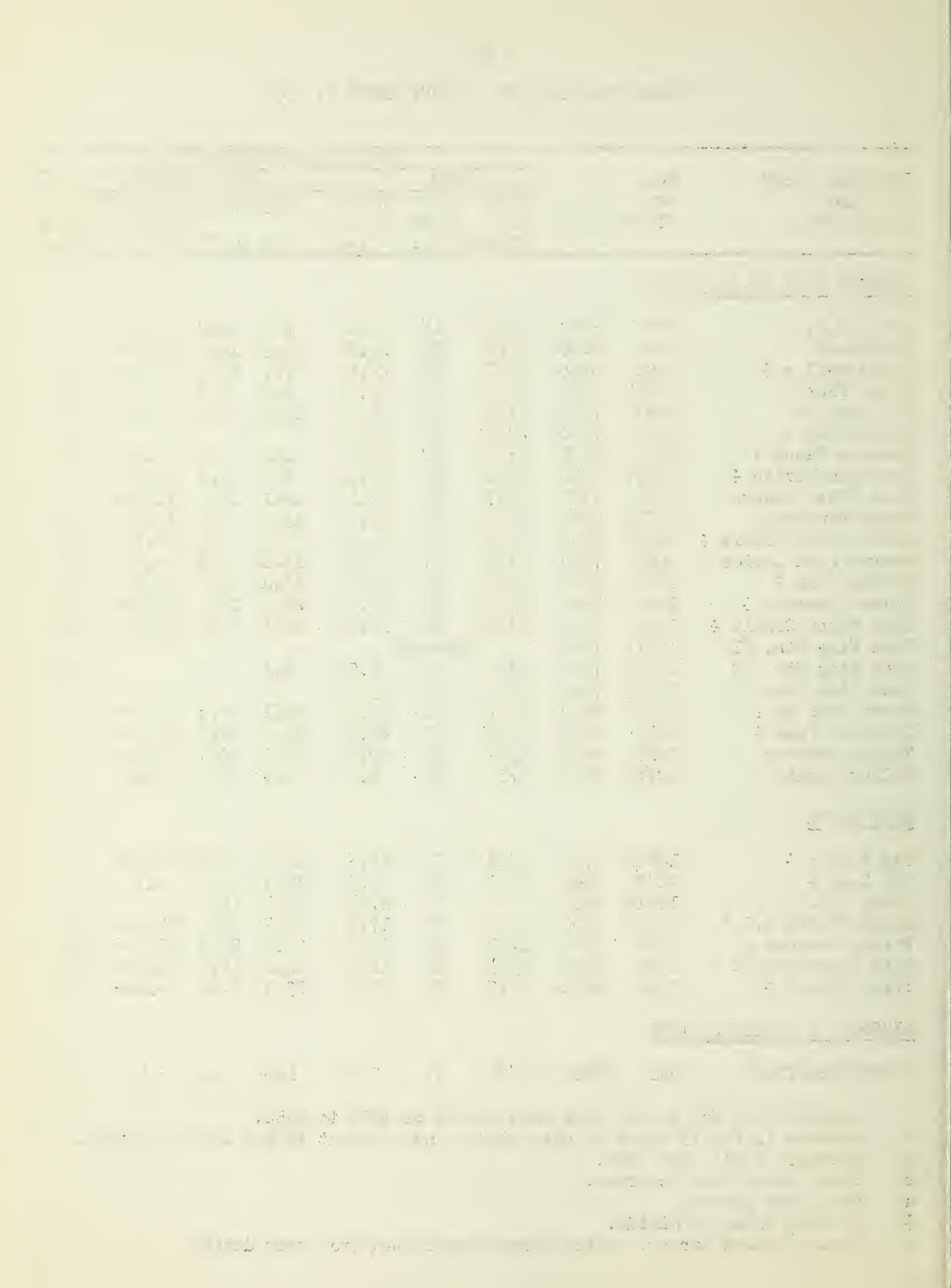
\*\* Average of all past data.

s South Dakota snow courses.

u Utah snow courses.

$\frac{1}{2}$  Located close to divide.

f Aerial Stadia Marker. Water Content estimated from snow depth.



STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - MARCH 1, 1959

| BASIN<br>and/or<br>STREAM | RESERVOIR     | USABLE<br>CAPACITY<br>1000s AF | USABLE STORAGE - 1000 ACRE FEET |       |       | 15-Yr-Avg.<br>1938-52 |
|---------------------------|---------------|--------------------------------|---------------------------------|-------|-------|-----------------------|
|                           |               |                                | 1959                            | 1958  | 1957  |                       |
| Snake River               | Jackson       | 847.0                          | 481.0                           | 567.6 | 119.6 | 488.7                 |
| Snake River               | Palisade      | 1202.0                         | N.R.                            | 652.1 | 376.7 | ---                   |
| North Platte              | Seminoe       | 981.8                          | 701.2                           | 601.2 | 267.2 | 351.0*                |
| North Platte              | Pathfinder    | 1011.0                         | 144.5                           | 700.0 | 244.2 | 415.1*                |
| North Platte              | Alcova**      | 190.5                          | -36.6                           | 38.0  | 171.6 | 81.7                  |
| North Platte              | Guernsey      | 39.8                           | 33.1                            | 29.1  | 39.5  | 36.6                  |
| North Platte              | Sutherland    | 70.0                           | 40.9                            | 49.0  | 32.0  | 49.4                  |
| North Platte              | Kingsley      | 1900.0                         | 1450.0                          | 997.7 | 614.4 | 1125.6                |
| North Platte              | Minatare      | 60.8                           | 31.4                            | 33.5  | 1.9   | 17.8*                 |
| Kansas Basin              | Bonny         | 39.9                           |                                 | 41.2  | 36.0  | 19.6*                 |
| Kansas Basin              | Swanson Lake  | 116.1                          | NO                              | 116.4 | 77.9  |                       |
| Kansas Basin              | Enders        | 36.0                           |                                 | 35.5  | 32.0  | 20.3*                 |
| Kansas Basin              | Harry Strunk  | 33.9                           | REPORT                          | 32.6  | 23.9  | 25.4*                 |
| Kansas Basin              | Harlan County | 252.9                          |                                 | 266.1 | 51.7  |                       |
| Kansas Basin              | Cedar Bluff   | 176.8                          |                                 | 181.0 | 112.0 | 157.3*                |
| Laramie River             | Wheatland     | 95.0                           | 30.0                            | --    | 2.8   | 22.8                  |
| Belle Fourche             | Belle Fourche | 185.2                          | 39.3                            | 66.0  | 37.0  | 102.9*                |
| Belle Fourche             | Keyhole       | 190.3                          | 0.0                             | 1.9   | 12.8  |                       |
| Shoshone River            | Buffalo Bill  | 380.3***                       | 0.0                             | 161.9 | 128.2 | 264.6                 |
| Wind River                | Boysen        | 560.0                          | 78.2                            | 249.1 | 220.0 | 122.0*                |
| Wind River                | Pilot Butte   | 31.6                           | 9.7                             | 15.9  | 14.3  | 14.5*                 |
| Wind River                | Bull Lake     | 152.0                          | 49.0                            | 66.5  | 67.8  | 56.5*                 |
| Cheyenne River            | Angostura     | 92.0                           | 44.1                            | 55.9  | 27.8  | 44.0*                 |
| Cheyenne River            | Deerfield     | 15.1                           | 8.9                             | 11.3  | 8.2   | 13.5*                 |
| Grand River               | Shadehill     | 84.0                           | 71.2                            | 79.4  | 75.4  |                       |
| Green River               | Big Sandy     | 38.3                           | N.R.                            | 34.3  | 10.2  |                       |

\* Average is for less than 15 years of record in the 1938-52 period.

\*\* Alcova, downstream from Seminoe and Pathfinder and containing 160,170 Acre Feet of active storage that is unavailable to the Kendrick Project.

\*\*\* Usable capacity 439,800, however, 59,500 Acre Feet are inactive except in emergency.



Federal - State - Private  
COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*

